Best Tools for immunology Research

Arginase-1 (PT0364R) PT® Rabbit mAb

Catalog No :	YM8217
Reactivity :	Human; Mouse; Rat;
Applications :	WB;IHC;IF;IP;ELISA
Target :	Arginase I
Fields :	>>Arginine biosynthesis;>>Arginine and proline metabolism;>>Metabolic pathways;>>Biosynthesis of amino acids;>>Amoebiasis
Gene Name :	ARG1
Protein Name :	Arginase-1 (EC 3.5.3.1) (Liver-type arginase) (Type I arginase)
Human Gene Id :	383
Human Swiss Prot No :	P05089
Specificity :	endogenous
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Monoclonal, rabbit, IgG, Kappa
Dilution :	IHC 1:200-1:1000;WB 1:2000-1:10000;IF 1:200-1:1000;ELISA 1:5000-1:20000;IP 1:50-1:200;
Purification :	Protein A
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	35kD
Observed Band :	35kD
Background :	Arginase catalyzes the hydrolysis of arginine to ornithine and urea. At least two isoforms of mammalian arginase exist (types I and II) which differ in their tissue

distribution, subcellular localization, immunologic crossreactivity and physiologic function. The type I isoform encoded by this gene, is a cytosolic enzyme and expressed predominantly in the liver as a component of the urea cycle. Inherited deficiency of this enzyme results in argininemia, an autosomal recessive disorder characterized by hyperammonemia. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011],

Function : catalytic activity:L-arginine + H(2)O = L-ornithine + urea.,cofactor:Binds 2 manganese ions per subunit.,disease:Defects in ARG1 are the cause of argininemia (ARGIN) [MIM:207800]; also known as hyperargininemia. Argininemia is a rare autosomal recessive disorder of the urea cycle. Arginine is elevated in the blood and cerebrospinal fluid, and periodic hyperammonemia occurs. Clinical manifestations include developmental delay, seizures, mental retardation, hypotonia, ataxia, progressive spastic quadriplegia.,induction:By arginine or homoarginine.,online information:Arginase entry,pathway:Nitrogen metabolism; urea cycle; L-ornithine and urea from L-arginine: step 1/1.,similarity:Belongs to the arginase family.,subunit:Homotrimer.,

Subcellular Location : Cytoplasm

Expression : Within the immune system initially reported to be selectively expressed in granulocytes (polymorphonuclear leukocytes [PMNs]) (PubMed:15546957). Also detected in macrophages mycobacterial granulomas (PubMed:23749634). Expressed in group2 innate lymphoid cells (ILC2s) during lung disease (PubMed:27043409).

Tag : hot,recombinant

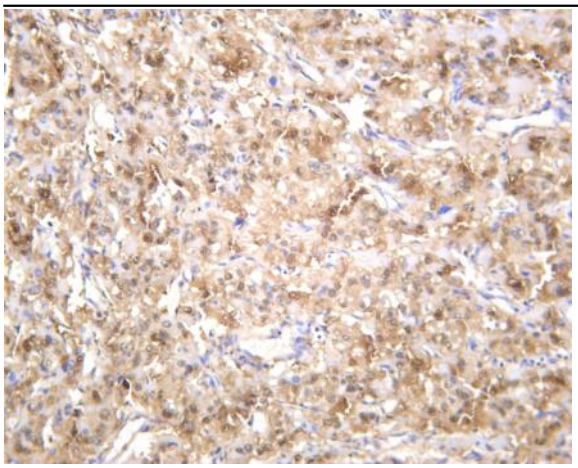
Sort : 800

No4 : 1

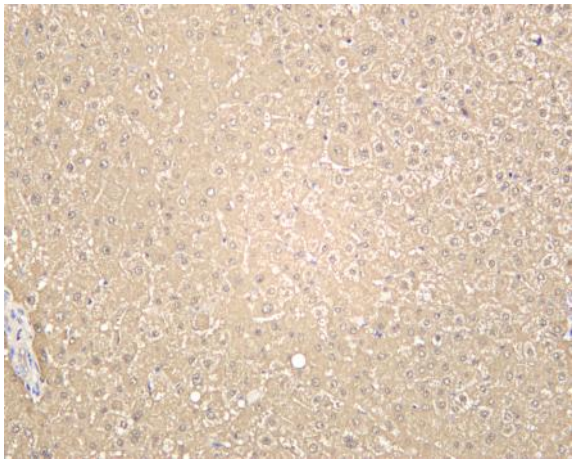
Host : Rabbit

Modifications : Unmodified

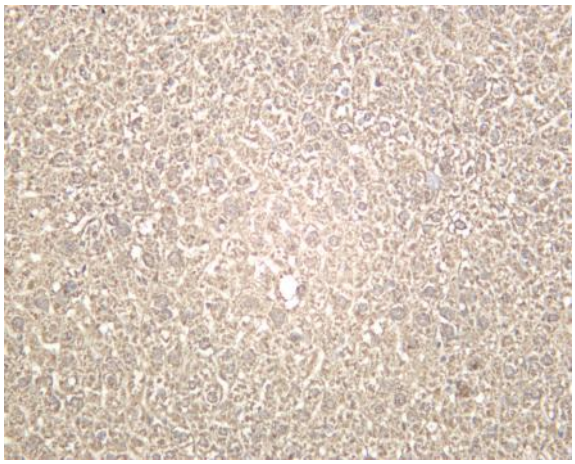
Products Images



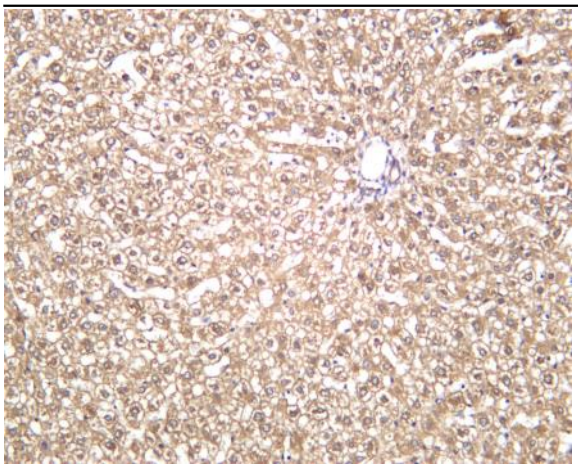
Human hepatocellular carcinoma was stained with anti-Arginase-1 (PT0364R) rabbit antibody



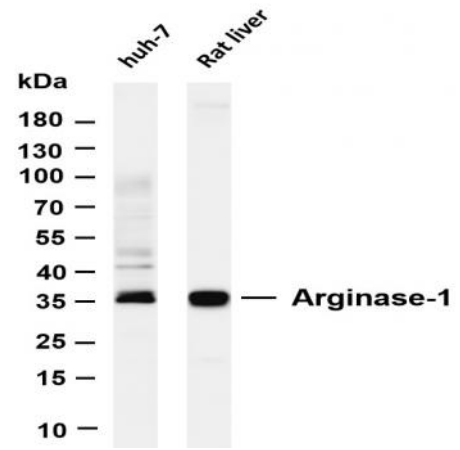
Human liver was stained with anti-Arginase-1 (PT0364R) rabbit antibody



Mouse liver was stained with anti-Arginase-1 (PT0364R) rabbit antibody



Rat liver was stained with anti-Arginase-1 (PT0364R) rabbit antibody



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Arginase-1 (PT0364R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: huh-7 Lane 2: Rat liver Predicted band size: 35kDa Observed band size: 35kDa